

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of Group Art Unit: 1754
Teruhiko NAWATA, et al. Examiner: Ngoc-Yen M. Nguyen
Serial No. 10/717,281
Filed: 11/19/2003

For: AS-GROWN SINGLE CRYSTAL OF ALKALINE EARTH METAL FLUORIDE

The Honorable Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Washington, D. C. 20231

Sir:

DECLARATION UNDER 37 CFR 1.132

I, Teruhiko NAWATA, declare and state that:

1. In March, 1989, I was graduated from the graduate course of Kyushu University, Engineering Research Department, majoring in nuclear engineering and received a degree of Master of Engineering from the same University.

Since April, 1989, I have been an employee of TOKUYAMA CORPORATION, and till the present time I have been engaged in the research and development work concerning polymer science, polymer processing and crystal growth.

2. I am a co-inventor of the invention described in the specification of the above-identified application.

3. I explain the detail of Comparative Experiment II described in my declaration of May 29, 2007.

In the declaration of May 29, 2007, I described that Pulling of a calcium fluoride single crystal was carried out in the same manner as in Example 1 of the specification, except that in the single crystal pulling apparatus of Fig. 1, the barrier (13) was not provided (see page 4, lines 2-5). However, I did not describe that the lid (14) was not provided. That is to say, the apparatus of Comparative Experiment II had the lid (14) corresponding to an overhanging portion (lid portion) of insulating wall 302 of the apparatus used in JP'197, but no barrier (13). Accordingly, the apparatus of Comparative Experiment II was almost the same as the apparatus of JP'197.

In Comparative Experiment II, the as-grown crystal of Comparative Experiment II produced by a single crystal pulling method (Czochralskimethod) using the above single crystal pulling apparatus was further annealed and still had lower light transmittance (see page 4, lines 16-23).

Therefore, the invention is patentable over JP'197.

The undersigned declares further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful

false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

Teruhiko Nawata

Teruhiko NAWATA

This 25th day of October, 2007